

Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-13. (Cancelled).

14. (Currently Amended) A method for production of a connection between a mobile station and a communication network, the mobile station performing the steps comprising:

automatically performing identification processes which identify usable connection options to different networks having different standards and frequency bands, wherein a first standard is selected and a check is carried out of the usable connection options within this first standard, then a next standard is selected and a check is carried out of the usable connection options within this next standard, ~~and~~ wherein connection parameters which identify the standard with which a usable connection option is found are stored, and wherein the identification processes are carried out during a power management cycle;

selecting a usable connection option; and

setting up a connection from the mobile station to the network via an access point after selection of connection parameters, wherein the connection is set up by the mobile station to the access point which is being communicated to via the standard for which the usable connection option has been selected.

15. (Previously Presented) The method of claim 14 wherein selecting a usable connection option comprises selection under program control

16. (Previously Presented) The method of claim 14 wherein selecting a usable connection option comprises manual selection.

17. (Previously Presented) The method as claimed in claim 14 wherein selecting a usable connection option comprises selecting the connection option which achieves the maximum data throughput between the mobile station and the communication network.

18. (Previously Presented) The method as claimed in claim 14 wherein an identification process and data storage of connection parameters which identify the standard with which a usable connection option is found are carried out before logging on a connection with an access point.

19. (Previously Presented) The method as claimed in claim 14 wherein an identification process and data storage of connection parameters which identify the standard with which a usable connection option is found are carried out while a connection exists to an access point.

20. (Previously Presented) The method as claimed in claim 19 wherein before the identification process is carried out, a current access point is signaled that the mobile station cannot receive data for an agreed time, and arriving data is buffered in the current access point.

21. (Previously Presented) The method as claimed in claim 14, wherein the mobile station logs off from the current access point, carries out the identification process, and logs on with the same access point or with another access point after the completion of the identification process.

22. (Previously Presented) The method as claimed in claim 14 wherein the automatic identification processes and the data storage of connection parameters which identify the standard with which a usable connection option is found and updating processes of said connection parameters are carried out within a time period in which no data is transmitted and during which the mobile station is not busy carrying out processes other than said identification, storage and/or updating processes that cannot be interrupted.

23. (Previously Presented) The method as claimed in claim 14 wherein the identification processes and the data storage of connection parameters which identify the standard with which a usable connection option is found and updating processes of said connection parameters are carried out periodically.

24. (Previously Presented) The method of claim 14 wherein the identification of usable connection options is carried out by transmission of a signal to possible access points and by evaluation of the received signal or just by evaluation of the received signal.

25. (Previously Presented) The method of claim 14 wherein the identification of usable connection options is carried out in a data transmission pause during an active connection to an access point.

26. (Previously Presented) The method of claim 14 wherein in the event of a deterioration in the transmission quality or a connection failure to the current access point, after accessing the stored data of connection parameters which identify the standard with which a usable connection option is found or after a further identification process, a connection change is made to an access point which ensures a better transmission quality.

27. (Previously Presented) The method of claim 14 further comprising:
switching to a different standards and to different frequency bands, wherein said switching is
carried out under program control or by rebooting a processor, the processor automatically
performing said identification processes which identify usable connection options.

28. (Previously Presented) The method of claim 14 further comprising:

carrying out a periodic comparison between the connection parameters to
the current access point and connection parameters to access points other than the current access
point; and

making a change to another connection option automatically or manually.